

DVORKIND, M., inzh.

Industrial methods come to the fields. IUn. tekhn. 4 no.10:4-6
U '59. (MIRA 13:1)

(Agricultural machinery)

DVORKIND, M., inzh.; LEBEDEV, S., inzh.

Evolution of the plow. *Iln.tekh.* 4 no.11:40-43 N '59.
(Plows) (MIRA 13:4)

DVORKIND, M.M.

BAS'YAS, I.P.; DVORKIND, M.M.; SARKISOV, I.G.; POSTNIKOV, P.F.

Efficient choice of refractories for laying a copper smelting reverberatory furnace. Ogneupory 22 no.7:301-306 '57. (MLRA 10:8)

1. Ural'skoye otdeleniye instituta ogneuporov (for Bas'yas and Dvorkind). 2. Krasnoural'skiy medeplavil'nyy zavod (for Sarkisov and Postnikov).

(Smelting furnaces) (Refractory materials)

18.3200

77605
SOV/133-60-2-5/25

AUTHOR: Dvorkind, M. M. (Engineer)

TITLE: Working Conditions of Open-Hearth Furnace Roof When Blowing Oxygen Into Flame and Furnace Bath

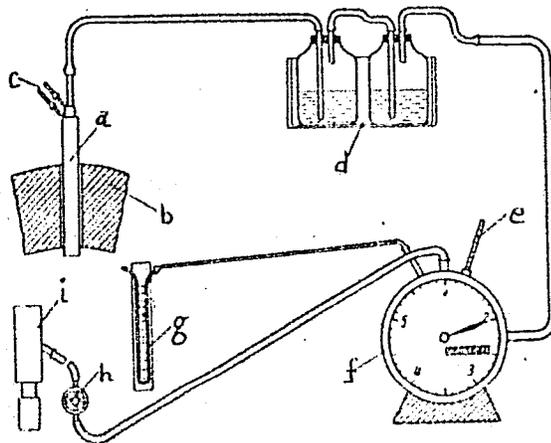
PERIODICAL: Stal', 1960, Nr 2, pp 117-121 (USSR)

ABSTRACT: In the investigation conducted since 1957 concerning oxygen enrichment in 370-ton open-hearth furnace it has become possible to determine conditions which prolong roof life when oxygen is supplied to bath and flame. The author studied the effects of nature and rate of wear versus flue dust concentration, rate of combustion product flow, and composition of atmosphere in subroof area. Changes in the composition of the atmosphere and the dust content in combustion products as oxygen is supplied to flame and bath along the front, center, and back lines of the roof was studied during individual melting periods by using dust and gas catching device shown in Figs. 1 and 2.

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Working Conditions of Open-Hearth Furnace Roof 77605
 When Blowing Oxygen Into Flame and Furnace Bath SOV/133-60-2-5/25

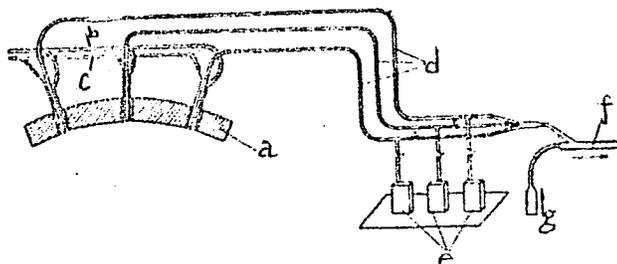
Fig. 1. Schematic diagram of dust catching tube (a) in the furnace roof (b): (c) water supply; (d) water filters; (e) thermometer; (f) gas meter; (g) manometer; (h) valve; (i) ejector.



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Working Conditions of Open-Hearth Furnace Roof 77605
When Blowing Oxygen Into Flame and Furnace Bath SOV/133-60-2-5/25

Fig. 2. Schematic diagram of flue gas intake from subroof area: (a) furnace roof; (b) water inlet; (c) water outlet; (d) gas intake tubes; (e) ORSA devices; (f) ejector; (g) compressed air supply.



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Working Conditions of Open-Hearth Furnace Roof 77605
When Blowing Oxygen Into Flame and Furnace Bath 30V/133-60-2-5/25

Based on the above investigations the author arrives at the following conclusions: (1) the concentration of flue dust with oxygen enrichment of the bath during the finishing period is 3 to 5 times higher than that without it. (See Table 1) (2) during addition of molten cast iron the dust content in the subroof area increases to 3.15-6.40 g/m³ with a maximum content of 0.458 g/m³ during the charging period and 1.645 g/m³ during melting down (per 1m³ of cold combustion products at 30^o C). (3) Maximum dust concentration with oxygen enrichment of the bath is observed along the back line of the roof. (4) During the oxygen supply to the bath the carbon monoxide content along the center and back lines of the roof increases from 2-8 to 3-13% (the content of carbon monoxide in the port undergoes sharp fluctuations occasionally reaching 26%; consequently, gas samples from the vertical ducts are unsuitable for atmosphere control in the subroof area). (5) Flue dust specimens taken from the subroof area during oxygen enrichment of the bath and during oxygen supply to the flame are

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Working Conditions of Open-Hearth Furnace Roof 77605
When Blowing Oxygen Into Flame and Furnace Bath SOV/133-60-2-5/25

Table 1. Dust concentration (g/m^3) in subroof area of a 370-ton open-hearth furnace during individual periods (numerators-maximum, denominators-minimum). (A) Melting period; (B) area of dust withdrawal--roof lines; (C) front; (D) center; (E) back; (F) charging (G) pouring of molten pig iron; (H) melting down; (I) finishing; (J) without oxygen enrichment; (K) with oxygen enrichment.

Table 1. on next card

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Working Conditions of Open-Hearth Furnace Roof 77605
When Blowing Oxygen Into Flame and Furnace Bath SOV/133-60-2-5/25

Table 1. (key on card 5/7)

A	B		
	C	D	E
F	0.224	0.272	0.458
	0.197	0.167	0.116
G	6.400	5.630	3.740
	4.080	3.400	3.150
H	1.395	1.645	0.737
	1.250	0.782	0.339
I:			
	0.856	0.760	0.940
J	0.690	0.313	0.780
K	4.200	4.900	6.300
	1.100	2.680	2.480

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Working Conditions of Open-Hearth Furnace Roof 77605
When Blowing Oxygen Into Flame and Furnace Bath SOV/133-60-2-5/25

similar in granular and chemical composition. (6) The roof wear is slightly increased during oxygen enrichment of the bath in areas of maximum concentration of flue dust and carbon monoxide. The investigation was carried out with participation of: I. P. Bas'yas, V. D. Koksharov, V. I. Dresvyankin, A. P. Paramonova, C. N. G'olokhmatov, B. N. Shisharin, T. A. Golikova, Ye. V. A. Klisha, Ye. L. Kozhevnikova, Zh. A. Vydrina, T. N. Bushueva, G. A. Nazarenko. There are 3 tables; 7 figures; and 4 Soviet references.

ASSOCIATION: Eastern Scientific Research Institute of Refractories
(Vostochnyy-nauchno-issledovatel'skiy institut ogneporov)

Card 7/7

DVORKIND, M.M., inzh.; KORSHUNOV, V.S.

Wear of fully automatized open-hearth furnace crowns. Stal' 20
no.11:991-995 N '60. (MIRA 13:10)

1. Vostochnyy institut ogneuporov.
(Open-hearth furnaces--Maintenance and repair)

LUZYANIN, M.D.; DVORKIND, M.M.; KORSHUNOV, V.S.

Daub for the lining of charging doors on open-hearth furnaces.
Metallurg 6 no.9:18-19 S '61. (MIRA 14:9)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat i Vostochnyy institut ogneporov.
(Open-hearth furnaces)
(Refractory materials)

DVORKIND, M.M., inzh.

Life of basic refractories in the lower part of open-hearth
furnaces operating with oxygen. Stal' 21 no.9:803-806 S '61.
(MIRA.14:9)

1. Vostochnyy institut ogneporov.
(Open-hearth furnaces) (Refractory materials)

DVORKIND, M.M.; KORSHUNOV, V.S.; PETROV, G.A.; VYDRINA, Zh.A.

Studying service conditions and type of wear of refractories
in a 15-ton rotary steel smelting furnace. Ogneupory 27
no.3:134-140 '62. (MIRA 15:3)

1. Vostochnyy institut ogneuporov (for Dvorkind, Korshunov).
2. Nichne-Tagil'skiy metallurgicheskiy kombinat (for Petrov,
Vydrina).
(Smelting furnaces) (Refractory materials)

STRELOV, K.K.; MAMYKIN, P.S.; Primali uchastiye: BAS'YAS, I.P.;
BICHURINA, A.A.; BRON, V.A.; VEGHER, N.A.; VOROB'YEVA, K.V.;
D'YACHKOVA, Z.S.; D'YACHKOV, P.N.; DYORKIND, M.M.;
IGNATOVA, T.S.; KAYBICHEVA, M.N.; KELAREV, N.V.;
KOSOLAPOV, Ye.F.; MAR'YEVICH, N.I.; MIKHAYLOV, Yu.F.;
SEMKINA, N.V.; STARTSEV, D.A.; SYREYSHCHIKOV, Yu.Ye.;
TARNOVSKIY, G.I.; FLYAGIN, V.G.; FREYDENBERG, A.S.;
KHOROSHAVIN, L.B.; CHUBUKOV, M.F.; SHVARTSMAN, I.Sh.;
SHCHETNIKOVA, I.L.

Institutes and enterprises. Ogneupory 27 no.11:499-501
162. (MIRA 15:11)

1. Vostochnyy institut ogneuporov (for Strellov). 2. Ural'skiy
politekhnicheskiy institut im. S.M. Kirova (for Mamykin).
(Refractory materials---Research)

DVORKIND, M.M.

Investigating the arch of a reverberatory furnace made of unfired
magnesite-chromite refractories. TSvet. met. 36 no.1:39-43 Ja
'63. (MIRA 16:5)

(Metallurgical furnaces) - (Refractory materials)

DVORKIND S.G.

22630. DVORKIND, S.G. Optynoye issledovaniye tsirkulyatsii parovodyanoy smesi v sudovykh parovykh kotlakh. Sbornik rabot studentov - chlenov nauch. Kruzhkov (lenigr. korablestroit, in-t), vyp. 1, 1949, S. 24-27

SO: LETOPIS' No. 20, 1949

BOLDYREV, B.G.; GORELOVA, S.A.; DVORKO, A.T.

Thiosulfonic acids. Part 6: Syntheses and antimicrobial properties
of trichloromethyl and methyl esters of some thiosulfonic acids.
Zhur.ob.khim. 31 no.7:2402-2406 J1 '61. (MIRA 14:7)

1. L'vovskiy politekhnicheskii institut.
(Sulfonic acids)

5(

SOV/21-59-5-10/25

AUTHOR: Dvorko, G.F.

TITLE: Kinetics and a Mechanism of Nucleophilic Addition of Hydrogen Chloride to the Third Bond in Methanol

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1959, Nr 5, pp 498-501 (USSR)

ABSTRACT: The author performed four kinetic experiments on the ability of HCl to combine with certain acetylene derivatives from the mixture of LiCl and $\text{CH}_3\text{CO}_2\text{H}$ in methanol, at 50°C . It was found that HCl did not combine with phenylacetylene. Its combination with methyl ethers of propiolic, phenylpropionic and n-nitrophenylpropionic acids was slow. With acetylenedicarbonic it combined at a measurable speed. The reaction rate is described by a kinetic equation of the third order; $v = K_3 / \text{CH}_3\text{O}_2\text{C} - \text{C} = \text{C} - \text{CO}_2\text{CH}_3 / \text{LiCl} / ^2$;

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$K_3 = 0.89 \cdot 10^{-2} \text{ mol}^{-1} \cdot \text{l} \cdot \text{min}^{-1}$ at 50°C . The reaction speed

SOV/21-59-5-10/25

Kinetic and a Mechanism of Nucleophilic Addition of Hydrogen Chloride to the Third Bond in Methanol

does not depend on the concentration of the acetic acid. The author advances a presumption that the nucleophilic combination of HCl is due to the presence in the solution, of lithium chloride complexes. The results of the experiments are compiled in four tables on page 500. There are 4 tables, 1 graph, and 2 references, 1 of which is Soviet and 1 English.

ASSOCIATION: Institut organicheskoy khimii AN UkrSSR (Institute of Organic Chemistry of the AS UkrSSR)

PRESENTED: By Ye.A. Shilov, Member of the AS UkrSSR

SUBMITTED: February 3, 1959

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5 (

SOV/21-59-6-15/27

AUTHORS: Shilov, Ye. O., (Shilov, Ye. A.)
(Dvorko, G. F.), /Academician of the AS UkrSSR, and Dvorko, G. F.

TITLE: Kinetics and Mechanism of Mercury Chloride Addition to the
Triple Bond in the Presence of Lithium Chloride in Methanol

PERIODICAL: Dopovidi Akademii Nauk Ukrain's'koi RSR, 1959, Nr 6,
pp 636 - 641 (USSR)

ABSTRACT: The authors studied the kinetics of addition of $HgCl_2$ in the
presence of $LiCl$ to certain acetylene derivatives in
methanol at $50^{\circ}C$, in soldered ampules contained in a thermo-
stat. It was found that $HgCl_2$ does not add to phenylacetylene.
Methyl ethers of phenylpropylic and n-nitrophenylpropylic
acids react very slowly. $HgCl_2$ is added to methyl ethers of
propylic and acetylendicarboxylic acids at a measurable rate.
 $HgCl_2$ is added to propylic ether at a rate about four times
faster than to acetylendicarboxylic ether under similar
conditions. For acetylendicarboxylic ether, the reaction is
complicated by simultaneous nucleophilic addition of NCl .

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SOV/21-59-6-15/27

Kinetics and Mechanism of Mercury Chloride Addition to the Triple Bond in the Presence of Lithium Chloride in Methanol

The reaction rate of HgCl_2 addition is monomolecular in an unsaturated compound. On doubling the HgCl_2 concentration the reaction rate increases less than twice, and in case of LiCl , more than twice. The kinetic results of examinations of addition of HgCl_2 to methyl ethers of propylic acid are shown in Figures 1 and 2, where "a" is ether concentration in mol/l; "B" is HgCl_2 concentration in mol/l; "c" is LiCl concentration in mol/l. Figures 3 and 5 show the speed of addition of HgCl_2 to dimethyl ether of acetylenedicarbonic acid (7 investigations). Figure 4 shows the speed of nucleophilic addition of HCl to the same ether. Figure 6 shows dependence of the solubility of HgCl_2 in CH_3OH on the LiCl concentration at 30, 40 and 50°C. Allowing for the presence in the solution of the equilibrium $\text{HgCl}_2 + \text{LiCl} \rightleftharpoons \text{HgCl}_2^- + \text{Li}^+$, a tetramolecular kinetic equation is proposed for describing the rate of the HgCl_2

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SOV/21-59-6-15/27

Kinetics and Mechanism of Mercury Chloride Addition to the Triple Bond in the Presence of Lithium in Methanol

There are 6 graphs and 4 references, 3 of which are Soviet and 1 American

ASSOCIATION: Institut organicheskoy khimii AN UkrSSR (Institute of Organic Chemistry of the AS UkrSSR)

SUBMITTED: February 3, 1959

Card 4/4

DVORKO, G. F., Cand Chem Sci -- (diss) "Kinetics and mechanism of the addition of mercuric chloride to acetylenic derivatives. " Kiev, 1960. 11 pp with graphs; (Academy of Sciences Ukrainian SSR, Inst of Organic Chemistry); 150 copies; price not given; (KL, 22-60, 132)

DVORKO, G. F.

Dependence of the solubility of mercury chloride on the concentration of lithium chloride in methyl alcohol. Ukr. khim. zhur. 28 no.5:621-623 '62. (MIRA 15:10)

1. Institut organicheskoy khimii AN UkrSSR.

(Mercury chloride) (Lithium chloride)
(Solubility)

DVORKO, G. F.; SHILOV, Ye. A.

Contribution to the theory of nucleophilic reactions. Part 8:
Addition of hydrogen chloride to acetylene derivatives in
methyl alcohol. Ukr. khim. zhur. 28 no.5:626-632 '62.
(MIRA 15:10)

1. Institut organicheskoy khimii AN UkrSSR.

(Acetylene compounds) (Hydrochloric acid)

DVORKO, G.F.

Kinetics and mechanism of the addition of mercuric chloride
to acetylene derivatives in methyl alcohol. Report No.2.
Ukr.khim.zhur. 28 no.8:945-951 '62. (MIRA 15:11)

1. Institut organicheskoy khimii AN UkrSSR.
(Acetylene compounds) (Mercury chloride)
(Addition reactions)

DVORKO, G.F.; SHILOV, Ye.A.

Theory of nucleophilic additions. Part 9: Addition of hydrogen bromide to acetylenedicarboxylic ester by active reagents from lithium bromide solutions in acetic acid. Ukr.khim.zhur. 28 no.9:1073-1079 '62. (MIRA 15:12)

1. Institut organicheskoy khimii AN UkrSSR.
(Acetylenedicarboxylic acid)
(Hydrobromic acid)
(Addition reactions (Chemistry))

DVORKO, G.F.; SHILOV, Ye.A.

Kinetics and mechanism of the addition of mercuric chloride to acetylene derivatives in methanol solution. Ukr.khim.zhur. 28 no.7:833-841 '62.
(MIRA 15:12)

1. Institut organicheskoy khimii AN UkrSSR.
(Acetylene compounds) (Mercury chloride) (Addition reactions)

DVORKO, G.F.; SHILOV, Ye.A.

Investigation of the theory of nucleophilic additions. Part 10:
Kinetics and mechanism of the addition of hydrogen iodide to
acetylene compounds in water. Ukr.khim.zhur. 29 no.1:73-79 '63.
(MIRA 16:5)

1. Institut organicheskoy khimii AN UkrSSR.
(Hydriodic acid) (Addition reactions) (Acetylene compounds)

DVORKO, G.F.; SHILOV, Ye.A.

Investigations in the theory of nucleophilic additions. Part 11:
Kinetics and mechanism of the addition of hydrogen bromide to
acetylenedicarboxylic acid in water. General conclusions on
the kinetics of addition of halogen acids in water. Ukr. khim.
zhur. 29 no.2:165-169 '63. (MIRA 16:6)

1. Institut organicheskoy khimii AN UkrSSR.
(Addition reactions)
(Hydrobromic acid)
(Acetylenedicarboxylic acid)

DVORKO, G.F.

Theory of nucleophilic additions. Part 12: Mechanism of the addition of hydrogen bromide to acetylene derivatives in acetic acid. Ukr. khim. zhur. 29 no.11:1188-1192 '63. (MIRA 16:12)

1. Institut organicheskoy khimii AN UkrSSR.

TKACH, V.P.; DVORKO, G.F.

Kinetics of hydrogen bromide splitting from potassium salts of 2,3-dibromopropyl ether of phenylsulfonamidophenylphosphinic and 2,2',3,3'-tetrabromodipropyl ether of phenylsulfonamidophosphoric acid.
Ukr.khim.zhur. 29 no.12:1295-1299 '63. (MIRA 17:2)

1. Institut organicheskoy khimii AN UkrSSR.

DVORKO, G.F.; SHILOV, Ye.A.

Kinetics and the mechanism of addition of hydrogen iodide
to multiple carbon-carbon bonds in organic solvents. Part 2:
Addition of hydrogen iodide to cyclohexene in benzene. Kin.
i kat. 5 no.2:240-246 Mr-Ap '64. (MIRA 17:8)

1. Institut organicheskoy khimii AN UkrSSR.

DYORKO, G.F.; SHILOV, Ye.A.

Kinetics and mechanism of addition of hydrogen iodide to multiple carbon-carbon bonds in organic solvents. Part 3: Addition of hydrogen iodide to cyclohexene in hexane, toluene, and chlorobenzene. *Kin. i kat.* 5 no.6:996-999 N-D '64. (MIRA 18:3)

1. Institut organicheskoy khimii AN UkrSSR.

DVORKO, G.F.; SHILOV, Ye.A.

Kinetics and mechanism of addition of hydrogen iodide to multiple carbon-carbon bonds in organic solvents. Part 4: Addition of hydrogen iodide to dimethyl ester of acetylenedicarboxylic acid in toluene, chlorobenzene, and hexane. Kin. i kat. 6 no.1:37-40 Ja-F '65.

(MIRA 18:6)

1. Institut organicheskoy khimii AN UkrSSR.

DVORKO, G.F.; KARPENKO, T.F.

Contribution to the theory of nucleophilic additions. Part 13:
Addition of hydrogen iodide to acetylenecarboxylic esters from
mixtures of N-butyl quinolinium iodide and carboxylic acids in
chloroform. Ukr. khim. zhur. 31 no.1:75-83 '65. (MIRA 18:5)

1. Institut organicheskoy khimii AN UkrSSR.

DVORKO, G.F.; MIRONOVA, D.F.

Theory of nucleophilic additions. Part 14: Addition of hydrohalic acids and HCNS to dimethyl ester of acetylenedicarboxylic acid in dimethylformamide. Ukr.khim.zhur. 31 no.2:195-201 '65.

(MIRA 18:4)

1. Institut organicheskoy khimii AN UkrSSR.

DVORKO, G.F.; KARPENKO, T.F.; SHILOV, Ye.A.

Kinetics and mechanism of hydrogen iodide addition to multiple carbon-carbon bonds in organic solvents. Part 5: Addition of hydrogen iodide to methyl ester of propiolic acid in chlorobenzene. *Kin.i kat.* 6 no.5:809-814 S-0 '65.

(MIRA 18:11)

1. Institut organicheskoy khimii AN UkrSSR.

DVORKO, G.F.; KARPENKO, T.F.; MIRONOVA, D.F.; SHILOV, Ye.A.

Contributions to the theory of nucleophilic additions. Part 15:
Nature of the acid as an important factor in the kinetics of
hydrogen iodide addition to dimethyl ester of acrylenedicarboxylic
acid in methanol and methanol - chloroform mixtures. Ukr. khim.
zhur. 31 no. 11:1177-1182 '65 (MIRA 19:1)

1. Institut organicheskoy khimii AN UkrSSr.

DVOREK, G.F.; MIRCHOVA, D.F.

Studies in the theory of nucleophilic additions. Part 16:
Addition of hydrogen iodide to dimethyl ester of acetylene-
dicarboxylic acid in various alcohols. Ukr. khim. zhur. 31
no. 12:1289-1293 '65 (MIRA 19:1)

1. Institut organicheskoy khimii AN UkrSSR. Submitted June 24,
1964.

L 17017-66 EWT(m)/EWP(j)/T BM

ACC NR: AP6007683

SOURCE CODE: UR/0413/66/000/003/0061/0061

INVENTOR: Yakhimovich, R. I.; Dvorko, G. F.

ORG: none

TITLE: Preparative method for polyanhydrides. Class 39, No. 178490 [announced by the Institute of Organic Chemistry, AN UkrSSR (Institut organicheskoy khimii AN UkrSSR); Institute of the Chemistry of Macromolecular Compounds, AN UkrSSR (Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 61

TOPIC TAGS: polyanhydride, semiconducting material, organic semiconductor, semiconducting polymer

ABSTRACT: An Author Certificate has been issued for a preparative method for semiconducting polyanhydrides involving anionic polymerization of the mixed anhydride of l-acetylenecarboxylic and a carboxylic acid. [B0]

SUB CODE: 07, 11 / SUBM DATE: 13Jul64/ ATD PRESS: 4207

Card 1/1 7105

UDC: 678.764

L 20599-66 EWT(m)/EWP(j)/T/STC(m)-6 WW/RM

ACC NR: AP6010833

SOURCE CODE: UR/0073/66/032/003/0260/0268

AUTHOR: Chernyavskiy, G. V.; Dvorko, G. F.; Shrubovich, V. A.; Grishin, O. M. 34
B

ORG: Institute of Organic Chemistry, AN UkrSSR (Institut organicheskoy khimii AN UkrSSR)

TITLE: Reactivity of cycloolefins⁷ in addition reactions. I. Kinetics and mechanism of iodine addition to cyclohexene in dimethylformamide

SOURCE: Ukrainskiy khimicheskij zhurnal, v. 32, 1966, 260-268

TOPIC TAGS: reaction mechanism, reaction kinetics, cyclohexene

ABSTRACT: Cycloolefins are promising monomers for the production of heat-resistant polymers.⁸ The relationship between their reactivity and their structure has not been studied sufficiently to date. The purpose of the present work was to study the reactivity of the double bond in cycloolefins toward heterolytic addition, in relation to the structure of the unsaturated compound. It was found that the addition of iodine to cyclohexene is an equilibrium process described by the kinetic equation:

$$v = k_3[C_6H_{10}][I_2]^2 - k_2[C_6H_{10} \cdot I_2][I_2].$$

The diiodide generated decomposes slowly into iodocyclohexene⁷ and HI. The equilibrium $I^- + I_2 = I_3^-$ in dimethylformamide is displaced almost entirely to the right.

Card 1/2

L 20599-66

ACC NR: AP6010833

The reaction rate depends only slightly on the temperature, and the temperature factor is equal to unity in some individual cases. Orig. art. has: 6 figures and 2 tables. [VS] 0

SUB CODE: 07/ SUBM DATE: 11Nov64/ ORIG REF: 010/ OTH REF: 013/ ATD PRESS:

4226

Card 2/2 BK

DVORKOVICH, A. S.

27920. DVORKOVICH, A. S. -- Sravnitel'naya otsenka beloy krovi pri khronicheskikh osteomielitakh ognestril'nogo proiskhozhdeniya. Trudy pervoy nauch. MezhrEsp. Konf-tsiy no lecheniyu invalidov otechestv. Voiny v sred. Azii. Tashkent, 1949, S. 163-70.

SO: Letopis' Zhurnal'nykh Statey. Vol. 37, 1949.

DVORKOVICH, Ye.A., kand.tekhn.nauk

A new principle for the design of enterprises of the construction industry. Prom.stroi. 40 no.4:31-36 '62. (MIRA 15:5)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy.
(Building materials industry) (Industrial plants)

DVOREKOVSKIY, B. B.

~~DVOREKOVSKIY, B. B.~~; LAPSHIN, V.I., redaktor; STUDENETSAYA, V.A., tekhnicheskij redaktor

[Operation of train radio sets] Eksploatatsia poezdnykh radiopunktov.
Moskva, Gos. transportnoe shelesnodorozhnoe izd-vo, 1951. 74 p.
(Railroads--Communication systems) (MIRA 8:2)
(Radio--Installation on trains)

DVORKOVSKIY, Boris Borisovich; SOKOLOV, V.F., inzhener, redaktor; STROGANOV,
I.P., inzhener, redaktor; KHITROV, P.A., tekhnicheskii redaktor

[Radio units in trains] Poezdnye radiopunkty. Moskva, Gos. transp.
zhel-dor, izd-vo, 1956. 106 p. (MLRA 9:10)
(Railroads--Trains--Radio equipment)

DVORKOVSKIY, B.B., elektromekhanik; FROLOV, I.A., starshiy elektromekhanik

Magnetic sound recording for broadcasting on trains. Avtom. elem.
i svyas' no.7:25-28 J1 '57. (MLBA 10:8)

1. Moskevske-Kurske-Donbasskaya dorega.
(Magnetic recorders and recording)

BELYKH, D.P., kand. ist. nauk; VALYULIS, I.A.; GOTSKIY, M.V., kapitan dal'nogo plavaniya [deceased]; D'YACHUK, I.L., kapitan dal'nogo plavaniya; KALMYKOV, F.A., kapitan dal'nogo plavaniya; KREMS, A.K., kapitan dal'nogo plavaniya; KOLOTOV, N.A., dots.; PETRENKO, S.A.; RASKATOV, A.S.; FISHER, Ye.L.; DVORNAYK, B.M., otv. red.; LEVITSKIY, V.L., red.; LYUTIKOV, V.K.; MALAKHOV, N.N., red.; POL', P.A., red.; RASKATOV, A.S., red.; CHICHVARKHIN, V.S., red.; RADOSTIN, V.A., red.; LAVRENOVA, N.B., tekhn. red.

[History of Far Eastern Steamship Lines]Istoriia dal'nevostochnogo parokhodstva; ocherki. Moskva, Izd-vo "Morskoi transport," 1962. 263 p. (MIRA15:11)

(Soviet Far East--Merchant marine)

CONSTANTINESCU, Gh., acad.; DVORNIC, V.

Microscopic method of recognizing the fertility of grape pollen. Studii cerc biol s. bot 16 no.5:407-412 '64.

1. Chair of Viticulture, "Nicolae Balcescu" Agronomic Institute, Bucharest.

DVORNICHENKO, A.I. (Odessa, ul. Shchepkina, 3, kv. 66)

Pathology of development of human fetus. Arkh.anat.gist.i embr.
38 no.4:91-93 Ap '60. (MIRA 14:5)

1. Kafedra gistologii i embriologii (zav. - prof. S.D.Shakhov)
Odesskogo meditsinskogo instituta imeni N.I.Pirogova.
(MONSTERS)

DVORNICHENKO, A. I., Cand Med Sci -- (diss) "Histological structures of
early ontogenesis of ^{human beings} ~~the~~ under conditions of extra-uterine pregnancy."
Odessa, 1958. 12 pp (Odessa Med Inst im N. I. Pirogov), 200 copies (KL,
17-58, 112)

-82-

DVORNICHENKO, A.I. (Odessa, ul. Shchepkina, d.3, kv.6)

Human embryo in ovarian pregnancy. Arkh.anat.,gist. i embr.
36 no.6:40-44 Je '59. (MIRA 12:9)

1. Kafedra gistologii i embriologii (zav. - prof.S.D.Shakhov)
Odesskogo meditsinskogo instituta im. N.I.Pirogova.
(PREGNANCY, ECTOPIC, pathol.
ovarian, histopathol. of embryo (Rus))

Dept. of Hearing Transmittal
133-227-10 Report - the general
method for presenting a hearing test
equipment for use and target...

~~BOLDYREV~~
BOLDYREV, B., glavnyy metodist pavil'ona; DVORNICHENKO, I., red.

["Medical equipment industry" pavilion] Pavil'on "Meditsinskaya
promyshlennost'"; putevoditel'. Moskva, Medgiz, 1957. 31 p.
(MIRA 11:3)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka, 1956-
(MOSCOW--MEDICAL SUPPLIES--EXHIBITIONS)

DVORNICHENKO, K. I., Cand of Tech Sci -- (diss) "Crystallization of Bicarbonate of Sodium during Carbonization of the Solutions Na_2CO_3 And NaHCO_3 ," Khar'kov, 1959, 14 pp (Khar'kov Polytechnical Institute imeni V. I. Lenin) (KL 4-60, 118)

DVORNICHENKO, M.F.

Our achievement is the outstanding deeds of our active members
Zdrav. Ros. Feder. 2 no.11:9-11 N'58 (MIRA 11:12)

1. Predsedatel' Moskovskogo gorodskogo komiteta Obshchestva
Krasnogo Kresta.
(MOSCOW--RED CROSS)

DVORNICHENKO, Nataliya Vasil'yevna; GOLUBTSOVA, P., red.; STEPANOVA, N.
tekh.red.

[How to make artificial flowers] Kak izgotovit' iskusstvennye
tsvety. Minsk, Gos.izd-vo BSSR. Red.nauchno-tekhn.lit-ry,
1959. 106 p. (MIRA 13:12)
(Artificial flowers)

DVORNICHENKO, Nikolay Yegorovich; BORDONSKIY, S., red.; TABAKOVA, I.,
tekhn.red.

[Chita; reference-guidebook] Chita; spravochnik-putevoditel'.
Chita, Chitinskoe knizhnoe izd-vo, 1959. 166 p. (MIRA 13:11)

(Chita--Guidebooks)

DVORNICHENKO, P. V.

USSR/Physics - Heat Exchange

May 52

"Problem of Practical Computation of Hydraulic Resistance of Fast-Moving Gaseous Streams in Presence of Heat Exchange," P. V. Dvornichenko

"Zhur Tekh Fiz" Vol XXII, No 5, pp 836-847

Solves in a finite form the differential eq of gaseous flow in cylindrical tubes in the case of permanent thermal pressure. The coeff of resistance and the characteristics of geometrical dimensions of the channel are eliminated by application of the basic relation of hydrodynamic theory of heat exchange.

222187

This soln is extended to a general case. Computation agrees satisfactorily with expts. Received 17 May 51.

222187

DVORNICHENKO, P. V.

Dvornichenko, P. V. — "Method of Design of Heat Exchange Apparatus With High Rates of Gas Flow." Odessa Polytechnic Inst, Chair of Steam Boilers, Odessa, 1954 (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No 24, 11 June 1955, Moscow, Pages 91-104

DVORNICENKO, P.V.

SUBJECT USSR / PHYSICS
 AUTHOR DWORNICENKO, P.V.
 TITLE Some Deliberations on the Method of Computing the Heat Transfer and the Hydraulic Drag in the Case of a Gas Flow of High Velocity.
 PERIODICAL Zhurn. techn. fis, 26, 1571-1578 (1956)
 Publ. 7 / 1956 reviewed 8 / 1956

CARD 1 / 2

PA - 1210

If we combine the basis of the hydrodynamic theory on heat transfer with the equation for heat balance for the case of a steady flow of gas in a cylindrical channel, we obtain: $\frac{T_{Br.1} - T_{Br.2}}{\theta} = u.n. \xi \frac{l}{D}$. $T_{Br.1} - T_{Br.2} = \Delta T_{Br}$ is the temperature gradient for deceleration along the flow of gas. θ is the average logarithmic stagnation pressure, u the ratio between the perimeter of the cross section of the heat transferring area of the wall and the entire perimeter, n is the ratio between the heat transfer coefficient and the heat conduction coefficient, ξ - drag coefficient, l - length of the channel, D - the hydraulic diameter of the channel. This equation represents the dependence of stagnation temperature variation upon the resistance coefficient. As u and n must be looked upon as constant for a given apparatus, and ξ as a factor that changes but little, there remains a certain $\frac{T_{Br}}{\theta}$ constant for a given type (with a given dimensionless length of channel). If the length of channel is known, the temperature gradient can be determined and vice versa. The quantity n is dependent on the Nusselt number Nu . The Nusselt number Nu characterizes the result of the heat transfer and becomes the starting point of the new point of

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411630007-9

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411630007-9"

STOYANOVICH, O.; VIASOV, B.; STAL'NICHENKO, V. (Ukraine); DVORNICHENKO, S.
(Ukraine) BARAYEV, I. (Leningrad); ISAYEV, N. (Moskva); TARASENKO, V.
(Ukraine); ANTONOV, G. (Moskva)

Champions are talking. Pozh. delo 5 no.10:14-15 0 '59.

(MIRA 13:2)

1. L'vovskoye pozharo-tekhnicheskoye uchilishche (for Stoyanovich).
2. Khar'kovskoye pozharo-tekhnicheskoye uchilishche (for Vlasov).
(Physical education and training)

I. 0091-67 EWT(L)/EWT(m) IJP(c) JD

ACC NR: AP6032188

SOURCE CODE: UR/0096/66/000/010/0072/0076

AUTHOR: Dvornichenko, V. V. (Engineer) 36

ORG: Moscow Aviation Institute (Moskovskiy aviatsionnyy institut)

TITLE: The velocity of sound in a two-phase region

SOURCE: Teploenergetika, no. 10, 1966, 72-76

TOPIC TAGS: sound, sound propagation, sound velocity, two phase region, sound transmission

ABSTRACT: A theoretical computation is made of the rate of sound propagation in a two-phase vapor-liquid medium. The results are compared with data obtained experimentally on the velocity of sound in the critical region of a Laval nozzle as a function of a two-phase vapor-water mixture near the left boundary curve. Orig. art. has: 15 formulas, 2 tables, and 4 figures. [Author's abstract]

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 005/

Card 1/1

UDC: 541.12.012.001.24

DVORNIK, D.

Yugoslavia (430)

Science - Periodicals

Byproducts of the preparation of 5-phenyl-barbituric acid. p. 197. ARHIV ZA KEMIJU. (Hrvatsko kemijsko drustvo i Sekcija kemicara Društva inženjera i tehnicara Hrvatske) Zagreb. Quarterly of the Croatian Chemical Society and the Chemical Section of the

East European Accessions List, Library of Congress, Vol 2, No. 6, June 1953, Unclassified

"Card 1 of 2"

DVORNIK, D.

Yugoslavia (430)

(continued) Croatian Society of Engineers and Technicians. Some articles written in English or German. Summaries in English or other western languages/. Vol 23, no. 3/4, 1951

East European Accessions List, Library of Congress, Vol 2, No. 6, June 1953, Unclassified

"Card 2 of 2"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411630007-9

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CIA-RDP86-00513R000411630007-9"

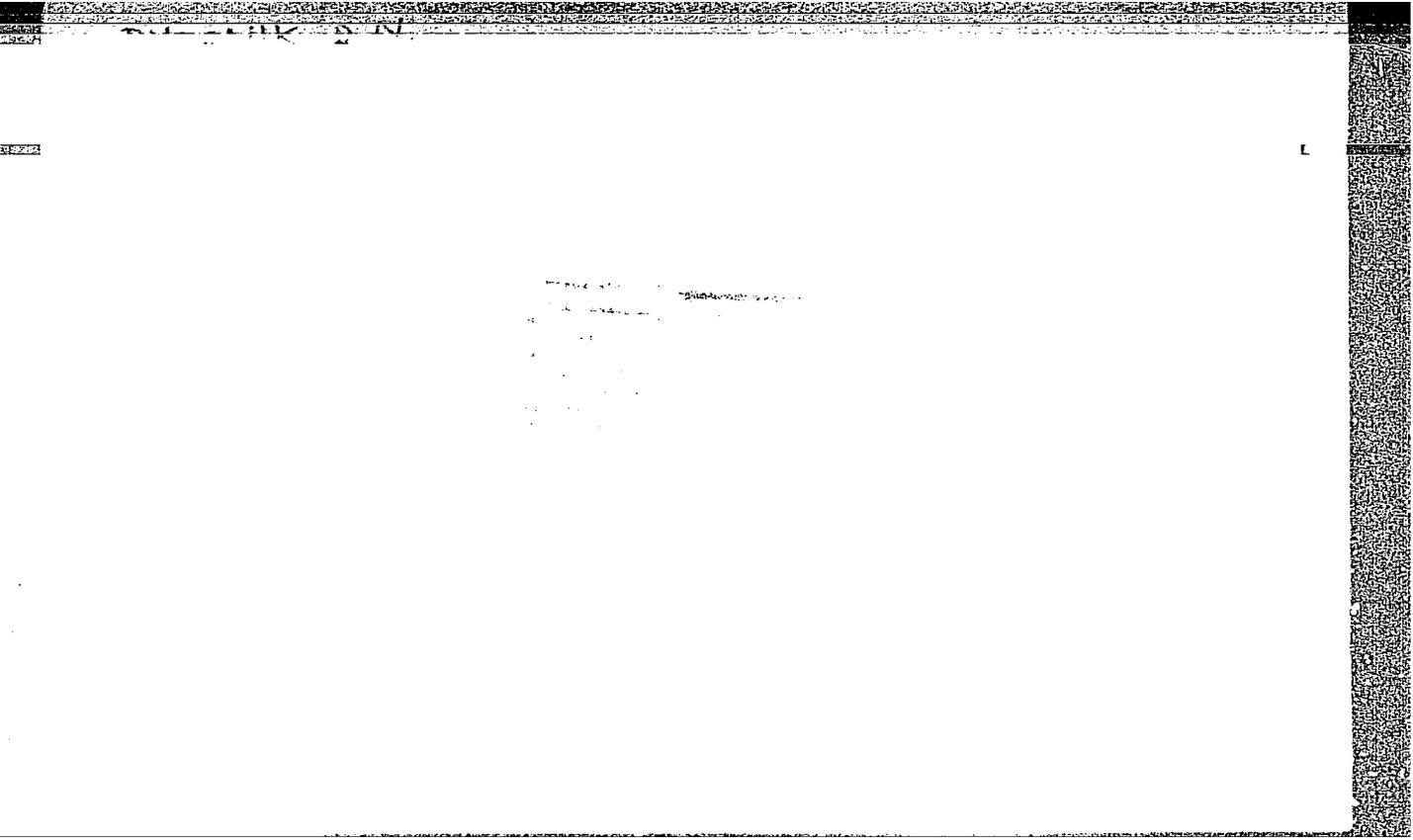
DVORNEK, D. H.

6

(3)

Preparation of diethyl malonate. D. M. Dvornik and E. Hamings (PLIVA Factory, Zarech, Yugoslavia). *Archiev. Khim.* 25, 113 (1953).—In the presence of 0.38 mole ClSO_3H for 7 hrs. a soln. of 0.285 mole $\text{NCCH}_2\text{CO}_2\text{H}$ refluxed in 110 ml. EtOH is simultaneously hydrolyzed and esterified to give di-Et malonate in 82–4% yield, calcd. on the basis of $\text{ClCH}_2\text{CO}_2\text{H}$.
Werner Jacobson

MC



DVERNIK D.M.

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Drafting

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CIA-RDP86-00513R000411630007-9"

DYNAMIC DATA

"APPROVED FOR RELEASE: 08/25/2000

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APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411630007-9"

DVORNIK, I.; ZEC,U.

Spectrophotometric measurement of HCl traces in nonaqueous systems, and its application in the radiation chemistry of organic liquid systems; abstract. Glas Hem dr 27 no.9/10: 545 '64

1. The Ruder Boskovic Institute, Department of Radiochemistry , Zagreb.

DVORNIK, I.; POSAVEC, V.; ZEC.U.

Experimental source of gamma radiation in the Ruder Boskovic
Institute; abstract. Glas Hem dr 27 no.9/10:551 '64

1. The Ruder Boskovic Institute, Department of Radiochemistry
Zagreb.

L 04133-67 EWP(j)/T IJP(c) RM

ACC NR: AP6020778

SOURCE CODE: YU/0020/65/000/05-/0027/0031

AUTHOR: Dvornik, Igor (Dr.; Graduate Chemical Engr; Senior professional associate;
Head of nuclear chemistry laboratories)

ORG: "Rudjer Boskovic" Institute, Zagreb (Institut "Rudjer Boskovic")

27
B

TITLE: Radiation production and its prospects in Yugoslavia

SOURCE: Nuklearna energija, no. 5-6, 1965, 27-31

TOPIC TAGS: industrial nuclear application, nuclear reactor

ABSTRACT: The application of radiation-chemical processes, especially in the production of improved polymers and fibres, and to some extent for chemical synthesis, has good prospects in Yugoslavia but is contingent on prior research and development activities. A favorable economic condition for the development of radiation production in Yugoslavia has been created by the possibility of choosing, at the time new products are introduced, between the conventional and the radiation process. The possibility of utilizing a radiation plant (gamma sources or electronic accelerators) simultaneously for the processing of different items should be considered. The first radiation plant should, therefore, be built as a multipurpose facility, the economic justification of which rests on the technological and economic solution of production (sterilization of medical appliances, pasteurization of food, treatment of potatoes, wheat, and

Card 1/2

L 04133-67

ACC NR: AP6020778

the like), and the design of which permits the introduction of the treatment of polymer products and of other processes to be evolved successively. The article presents the basic economic factors, analyzes the capacity, role, and possible engagement of laboratories in various institutes, and describes the role of the scientific basis. Orig. art. has: 3 tables.

SUB CODE: 18/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 016

Card 2/2 *HL*

DVORNIK, I.

Colloid-chemical problems in the separation of red sludge-from aluminate solution in the Bayer process. E. Herrmann, I. Dvornik, O. Korelic, and V. Matkovic. Colloid- Z. 123, 22-33(1951).- Behavior of the red sludge or silt formed in the digestion of bauxite by the Bayer process was studied. Bauxites from Dalmatia, Herzegovinia, and Bosnia were dried at 300° for 20 min., ground, and digested in a stirred autoclave at 180° for 130-40 min. at a ratio ($Al_2O_3:Na_2O$) of 1:1.9, yielding an aluminate soln. having a ratio of 1:3.8. Settling of silt was observed at 90°. Peptization of the sludge occurred on diln. below about 10 g. Al_2O_3 and 15 g. Na_2O/l . The limiting concns. depend on conditions of digestion and source of bauxite. Samples from upper and lower portions of settling sludge show marked differences in analysis. Sludge from the walls and heating surfaces of the autoclave were high in SiO_2 . Addn. of flour or starch to the aluminate solns. in small amt. (0.04 g. starch/l.) increased the limiting concn. of peptization and further addn. decreased this concn. until at 0.25 g. starch/l. it was almost zero. Increasing the concn. of $Al(OH)_2$ sol improved the aggregation of the sludge, as did also addn. of flour before or after autoclaving. L. P. Hall

DVARNIK J.

DVORNIK, Slavomir

Our experiences with efosin. Srpski arh. celok. lek. 87 no.6:566-571 Je '59.

1. Ginekolosko-porodiljski odjel Opce bolnice u Splitu, sef: prim. dr Jure Lukinovic.
(MUSCLE RELAXANTS ther.)

FILANOVSKIY, G.; DVORNIKOV, A.

Toward the 22nd Party Congress. Grazhd.av. 18 no.4:5-6 '61..
(MIRA 14:4)

1. Nachal'nik Vostochno-Sibirskogo territorial'nogo upravleniya
Grazhdanskogo vozdushnogo flota (for Filanovskiy). 2. Nachal'nik
politotdela Vostochno-Sibirskogo territorial'nogo upravleniya
Grazhdanskogo vozdushnogo flota (for Dvornikov).
(Siberia, Eastern--Aeronautics, Commercial)

DVORNIKOV, A.F., inzh.

Experience in increasing the power of a thermal electric power
plant. Energetik 11 no.8:21 Ag '63. (MIRA 16:10)

DVORNIKOV, A.F., inzh.

Operation of the 5TS-10 feed pumps with water temperature exceeding
150°C. Energetik 11 no.9:13-14 S '63. (MIRA 16:10)

TRUSOV, S.I., inzh.; DVORNIKOV, A.F., inzh.

Operation of a magnesite unloading and transporting system.
Elek. sta. 34 no.10:79-80 0 '63. (MIRA 16:12)

MATVEYEV, N.S., inzh.; DVORNIKOV, A.F., inzh.

Experience in feedwater phosphatization in the Voronezh
Thermal Electric Power Plant No.2. Prom. energ. 19 no.1:28
Ja '64. (MIRA 17:2)

TRUSOV, S.I., inzh.; DVORNIKOV, A.F., inzh.

Conversion of the operation of the condenser of the PT-25-90/10
turbine from two to four cycle water flows. Elek. sta. 35 no.8:69
Ag '64. (MIRA 17:12)

DVORNIKOV, A.F., inzh.

Determination of the effect of the load graph on fuel consumption.
Elek. sta. 36 no.10:44 0 '65. (MIRA 18:10)

DVORNIKOV, A.G.

Dispersion halos of mercury in limestones of the Balka Gruzskaja complex metal deposit (Nagol'nyy Range). Geokhimiia no.5:464-470 '62. (MIRA 15:7)

1. Institute of Mineral Resources, Academy of the Ukrainian Soviet Soc. Republic, Simferopol.
(Nagol'nyy Range (Donets Basin)--Mercury)

DVORNIKOV, A.G.

Some features of dispersion halos of mercury in soils and coals
in the southeastern Donets Basin. Dokl. AN SSSR 150 no.4:894-
897 Je '63. (MIRA 16:6)

1. Institut mineral'nykh resursov AN SSSR. Predstavleno akademi-
kom D.I. Shcherbakovym.
(Donets Basin—Mercury ores)

DVORNIKOV, A.G.; VASILEVSKAYA, A.Ye.; SHCHERBAKOV, V.P.

Some characteristics of the distribution of mercury dispersion
halos in the soils of the Nagol'nyy Range. Geokhimiya no.5:
478-483 My '63. (MIRA 16:7)

1. Institute of Mineral Resources of the Academy of Sciences,
U.S.S.R., Moscow.

(Nagol'nyy Range--Mercury ores)

DVORNIKOV, A.G.; VASILEVSKAYA, A.Ye.; SHCHERBAKOV, V.P.; SHVAKOVA, A.A.

Mercury dispersion halos in the soils of the Nagol'no-Tarasovka
and Mar'yevko-Dar'yevka complex metal deposits. Izv. AN SSSR,
Ser.geol. 28 no.5:96-100 My '63. (MIRA 17:4)

1. Institut mineral'nykh resursov AN UkrSSR, Simferopol'.

DVORNIKOV, A.G.; TKACH, B.I.; SHTANCHENKO, M.S.; ANTONOV, V.M.

Some features of the distribution of cinnabar and native elements
in loose sediments of the Nagol'nyy Ridge. Dokl. AN SSSR 151
no.5:1189-1192 Ag '63. (MIRA 16:9)

1. Institut mineral'nykh resursov AN UkrSSR. Predstavleno
akademikom N.M.Strakhovym.
(Nagol'nyy Ridge--Minerals)

DVORNIKOV, A.G., [Dvornikov, O.H.]; TRACH, B.I.; SHTANCHENKO, M.S.;
ANTONOV, V.M.

Minerals of a group of native elements in the loose sediments
of the Nagol'nyy Range. Dop. AN URSR no.9:1226-1229 '64.
(MIRA 17:11)

1. Institut mineral'nykh resursov AN UkrSSR. Predstavleno
akademikom AN UkrSSR N.P. Semenenko [Semenenko, M.F.].

DVORNIKOV, A.G. [Dvornikov, O.S.]; KLITCHENKO, M.A.

Distribution of mercury in the intrusive rocks of the Nagol'nyy
Range. Dop. AN URSR no.10:1354-1357 '64. (MIRA 17:12)

1. Institut mineral'nykh resursov AN UkrSSR. Predstavleno
akademikom AN UkrSSR V.G. Bondarchukom [Bondarchuk, V.H.].